

Agricultural

(From the Daily Farmer.)

Value of Potatoes High.

ED. OHIO FARMER—I desire to know, through the Farmer, the value of potatoes given to hogs worth four cents a pound; and also, the relative value of raw potatoes, and those that are boiled.

A. FRANCIS THOMAS,
Husband, O.

We suppose our correspondent does not want a simple *dictum* but facts, from which he can ascertain the object of his inquiry, or test the correctness of our opinion.

Potatoes contain from 70 to 80 per cent. of water, of course possess only 20 to 30 per cent. of nutritious matter. Of this nutritious matter, only about 1 per cent. is gluten and albumen, and the rest is starch.

Wheat has only from 12 to 14 per cent. of water, and the gluten and albumen range from 9 to 13 per cent., so that while potatoes furnish only from 20 to 30 per cent. of nutritious matter, wheat is, therefore, one to four, or if potatoes are twenty-five cents a bushel, wheat should be \$1.

The nutritive value of various articles of food may be expressed in equivalents as follows: Wheat \$1; corn, 74¢; barley, 68¢; oats, 56¢; potatoes, 25¢; 34 pounds of soured meat will form one pound of wheat.

To fatten pork on wheat at \$1 a bushel, or corn at 75 cents, barley 68 cents, oats 56 cents, and potatoes at 25 cents a bushel, the pork should bring 9 cents a pound.

If corn is 50 cents a bushel, or its equivalents at the same ratio, pork should be 5¢ cents; if worth 42 cents, pork should be 5¢ cents; if worth 33 cents, pork should be 4¢ cents; if worth 25 cents pork should be 3¢ cents.

For hogs, potatoes may be set down in nutritive value at one-fourth that of wheat, not one-tenth that of corn. To fatten hogs on wheat, then, we must afford the pork a 40 per cent. advantage, as it was to wheat, in order to make up for the value of potatoes—say 20 to eighty. Pork, in the extent to which water could be allowed in the feed of animals, if fed along such foods, it will prove unsatisfactory and reduce it much, instead of fatten them. Boiling potatoes cools the water down so that the animal's increased metabolism—one-half hour from 42¢ to 18¢, and still all the nutriment at proportion remain.

Potatoes, however, are either a poor article with which to fatten hogs; unless they are well mixed with nitrogenous substances, and those possessing oil, they will not set on the fat to advantage. They are very good when mixed with pumpkins, buckwheat, and apples, and boiled. With such foods food may be fed to them in the ear.

In estimating equivalents, we should always take into account the size of the article. Corn will lose twenty per cent. in drying. It will make one-half difference, then, whether we equate the nutritive value of an article when wet or dry.

Hay-Making.

As the season for making hay is approaching, we will give a few words of caution in advance. *Don't dry your hay too much.* Hay may be dried all in a worthless as straw. As a good coffee-maker would say, "don't burn your coffee, but brown it"; so we say, don't dry your hay, but cure it. Our good old mothers, who relied upon her tea, instead of "pottery in disease," gathered their herbs when in blossom, and cured them in the shade. This is the philosophy of making good hay. Cut in the blossom and cure in the shade. The sugar of the plant, when it is in bloom, is in the stalk ready to form the seeds. If the plant is cut earlier, the sugar is not there; if later, the sugar has become converted to woody matter.

Hay should be well cured in the sun, cured in the cook. Better to be a little too green, than too dry. If, on putting it into the barn, there is danger of "heating in the mow," put on some salt. Care will like it none the less.

Heat, light, and dry winds, will soon take the starch and sugar, which constitute the goodness of hay, out of it, and, with the addition of a shower, render it almost worthless. Grass cured with the least exposure to the drying winds and scorching sunshine, is more nutritious than if longer exposed, however good the weather may be. If well cured, it contains more water, and less nutritive matter.

The true art of hay-making, then, consists in curing the grass when the star and sugar are most fully developed, and before they are converted into seed, and curing up to the point when it will answer to put in the barn, *without heat*, and no more.

Patent Bee-Hives.

There has been a great deal of money spent in the purchase of patent bee-hives, and unless the intention of the public is directed to the subject, this drain will still continue. I always regarded money invested in patent-bee hives as thrown away, until Mr. Langstroth's wonderful comb frame was introduced, and it, in my opinion, exceeds all previous inventions in this line. If used skilfully, it is the best for the rapid propagation of bees, or rather increase of swarms, and also for surplus honey. Several inventors (?) have brought out and patented modifications of these frames, that, in my opinion, are mere infringements of Mr. L.'s patent, and impositions on the public. The pleasure and most simple bee-hive is the best, and the more square and straight the combs the better, not having too large or small a box. Don't believe everything you hear in regard to improvements in hives. Five dollars may be, and often is paid for rights that are worthless. Bee-keepers have suffered enough from this already.—J. T. Merriman, Barton, Geauga Co., O.

A Pauper for the Democrats.

Senior Nicholson assured a circle of anxious Democrats to-day that a pauper had been found for all the maladies of the party, in the probable nomination of Ex-Governor Seymour of New York, which the South would accept, without hesitation. Our friends are agreed. Let the Democracy by down the platform, and open the ball—[Wash. Cor. N. Y. Tribune, 28th.]

**JOHN LYONS,
GROCER
AND DEALER IN
FISH, SALT, BACON
AND
PROVISIONS, GENERALLY**

WE hold out, under the new filing up Stock for the SPINKING TRADE, and a few days will be required to supply the Farmers with Fish from the Northern Lakes, and the Fish Market will be taken care of for Goods ready Cash, as desired.

Respect, my dear, CASH & L.

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CASTING WAGONS,

which will be disposed of at this time; at VERY LOW PRICES, for Cash, short time paper, or a few good weeks, with no interest.

Send for catalogues from the liberal patronage extended to him by the people of this country during the past eighteen years, and would most respectfully solicit a continuation of their favors.

W. H. SHUTT,
Lancaster, February 23, 1860—421

BARGAINS! BARGAINS!

CARRIAGE SHOP

**WM. H. SHUTT,
WHEELING Street, Lancaster, Ohio,**

HAS ON HAND A LARGE LOT OF

CARRIAGES AND BUGIES.

Also, a fine lot of

EXPRESS WAGONS,

which will be disposed of at this time; at VERY LOW PRICES, for Cash, short time paper, or a few good weeks, with no interest.

Send for catalogues from the liberal patronage extended to him by the people of this country during the past eighteen years, and would most respectfully solicit a continuation of their favors.

W. H. SHUTT,
Lancaster, February 23, 1860—421

**MORRIS, JONES & CO.
IRON AND STEEL MERCHANTS,**

**Market and Sixteenth Streets,
PHILA'DELPHIA.**

HAVING on hand a large quantity of Iron, Steel, and other articles especially suited to the Western Market.

November 10, 1859—429

HOSTETTER'S STOMACH BITTERS.

The proprietors and manufacturers of HOSTETTER'S CELEBRATED STOMACH BITTERS, put in bottles of 2, 3, 4, 5, 6, 8, 10, 12, 15, 18, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100, 120, 150, 180, 200, 250, 300, 350, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 1800, 2000, 2500, 3000, 3500, 4000, 5000, 6000, 7000, 8000, 9000, 10000, 12000, 15000, 18000, 20000, 25000, 30000, 35000, 40000, 50000, 60000, 70000, 80000, 90000, 100000, 120000, 150000, 180000, 200000, 250000, 300000, 350000, 400000, 500000, 600000, 700000, 800000, 900000, 1000000, 1200000, 1500000, 1800000, 2000000, 2500000, 3000000, 3500000, 4000000, 5000000, 6000000, 7000000, 8000000, 9000000, 10000000, 12000000, 15000000, 18000000, 20000000, 25000000, 30000000, 35000000, 40000000, 50000000, 60000000, 70000000, 80000000, 90000000, 100000000, 120000000, 150000000, 180000000, 200000000, 250000000, 300000000, 350000000, 400000000, 500000000, 600000000, 700000000, 800000000, 900000000, 1000000000, 1200000000, 1500000000, 1800000000, 2000000000, 2500000000, 3000000000, 3500000000, 4000000000, 5000000000, 6000000000, 7000000000, 8000000000, 9000000000, 10000000000, 12000000000, 15000000000, 18000000000, 20000000000, 25000000000, 30000000000, 35000000000, 40000000000, 50000000000, 60000000000, 70000000000, 80000000000, 90000000000, 100000000000, 120000000000, 150000000000, 180000000000, 200000000000, 250000000000, 300000000000, 350000000000, 400000000000, 500000000000, 600000000000, 700000000000, 800000000000, 900000000000, 1000000000000, 1200000000000, 1500000000000, 1800000000000, 2000000000000, 2500000000000, 3000000000000, 3500000000000, 4000000000000, 5000000000000, 6000000000000, 7000000000000, 8000000000000, 9000000000000, 10000000000000, 12000000000000, 15000000000000, 18000000000000, 20000000000000, 25000000000000, 30000000000000, 35000000000000, 40000000000000, 50000000000000, 60000000000000, 70000000000000, 80000000000000, 90000000000000, 100000000000000, 120000000000000, 150000000000000, 180000000000000, 200000000000000, 250000000000000, 300000000000000, 350000000000000, 400000000000000, 500000000000000, 600000000000000, 700000000000000, 800000000000000, 900000000000000, 1000000000000000, 1200000000000000, 1500000000000000, 1800000000000000, 2000000000000000, 2500000000000000, 3000000000000000, 3500000000000000, 4000000000000000, 5000000000000000, 6000000000000000, 7000000000000000, 8000000000000000, 9000000000000000, 10000000000000000, 12000000000000000, 15000000000000000, 18000000000000000, 20000000000000000, 25000000000000000, 30000000000000000, 35000000000000000, 40000000000000000, 50000000000000000, 60000000000000000, 70000000000000000, 80000000000000000, 90000000000000000, 100000000000000000, 120000000000000000, 150000000000000000, 180000000000000000, 200000000000000000, 250000000000000000, 300000000000000000, 350000000000000000, 400000000000000000, 500000000000000000, 600000000000000000, 700000000000000000, 800000000000000000, 900000000000000000, 1000000000000000000, 1200000000000000000, 1500000000000000000, 1800000000000000000, 2000000000000000000, 2500000000000000000, 3000000000000000000, 3500000000000000000, 4000000000000000000, 5000000000000000000, 6000000000000000000, 7000000000000000000, 8000000000000000000, 9000000000000000000, 10000000000000000000, 12000000000000000000, 15000000000000000000, 18000000000000000000, 20000000000000000000, 25000000000000000000, 30000000000000000000, 35000000000000000000, 40000